Michael He

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| github.com/MichaelHeUVA | US Citizen

Education

University of Virginia | Charlottesville, VA   *May 2025*
Bachelor of Science in Computer Science, GPA: 3.98   Dean's List
Relevant Courses: Data Structures and Algorithms, Computer Systems Organization, Discrete Math and Theory, Linear Algebra, Software Development Essentials, Introduction to Cybersecurity, Data Science
Lake Braddock Secondary School | Burke, VA   *Aug 2018 – Jul 2022*
GPA: 4.6

Experience

Runway   *Jan 2023 – Present*
Software Engineer Intern   Remote
- Interacted with other developers to manage and build a full stack website.
- Collaborated with project managers, designers, and developers to define project goals, requirements, and timelines.
- Built multiple user interface components and pages using Next.js, React.js, and Tailwind CSS.
- Worked with developers to build Java Spring backend routes for CRUD operations on student and business entities.

Projects

Personal Portfolio | React.js, Next.js, Tailwind CSS, GitHub, Git | Personal   *Sep 2023 – Present*
- …
- …
- Deployed the web app to GitHub pages and resolved linking conflicts.

CheapGPT | JavaScript, Discord API, OpenAI API | Personal   *Jun 2023 – Present*
- Created a Node.js based Discord bot to allow users to interact with ChatGPT 4 in a server setting.
- Continuously maintain and update the Discord bot to ensure optimal performance and scalability.
- Generated a file directory system when the text exceeded the Discord character limit.
- Implemented commands for users to interact with the bot.

Full Stack Website | Next.js, React.js, Java Spring, Tailwind, AWS DynamoDB, Git, TypeScript | Runway *Jan 2023 – Present*
- Built full stack website modeled using Figma.
- Built a page to list all business submitted projects and built functionalities for students to apply/unapply to projects.
- Built a page for businesses to view student profiles.
- Built pricing and home landing pages with Next.js.
- Interacted with the AWS DynamoDB and AWS S3 to retrieve and render website components.
- Utilized Tailwind CSS and flexbox to optimize desktop and mobile views.
- Built backend routes using Java Spring Boot hosted on an Amazon EC2 instance.

Chess Elo Calculator | JavaScript, HTML, CSS | Personal   *Mar 2022 – May 2022*
- Used JavaScript, HTML, and CSS to create a simple website that calculates the change in chess Elo depending on who won.
- Created a toggleable dark mode feature for users.
- Implemented FIDE's performance rating Elo algorithm.

Awards

AP Scholar with Distinction – College Board   *Jul 2021*

Skills

Programming Languages: Java, Python, C, JavaScript, TypeScript, HTML, CSS, R
Technologies: GitHub, Java Spring/Spring Boot, Amazon DynamoDB, Amazon S3, Amazon EC2, Node.js, React.js, Next.js, Tailwind CSS, Bootstrap CSS, Git, Java Gradle, ggplot2, OpenAI
Languages: English (native), Chinese (conversational)